

## Ben(jamin Thomas Peng-nien) Chu

### Curriculum Vitae

#### Personal Information

Home Address: 27 View Road, Setauket, New York 11733  
Nationality: U.S.A.; Naturalized February 13, 1968, U.S. District Court of Kansas City.  
Marital Status: Married, three children.

**Present Position:** Distinguished Professor  
Phone: 631-632-7928 FAX: 631-632-6518  
E-mail: bchu@notes.cc.sunysb.edu

**Education:** B.S., magna cum laude, St. Norbert College, 1955  
Ph.D., Cornell University, 1959

#### Employment History:

Research Associate with Peter J. W. Debye, Cornell University	1958-1962.
Assistant Professor of Chemistry, University of Kansas	1962-1965
Associate Professor of Chemistry, University of Kansas	1965-1968
Professor of Chemistry, State University of New York at Stony Brook	1968-1988
Chairman,	1978-1985
Professor of Materials Science and Engineering	1982-
Leading Professor of Chemistry, SUNY/Stony Brook	1988-
Distinguished Professor, SUNY/Stony Brook	1992-

#### Other Appointments:

Brookhaven National Laboratory	Summer, 1957
Univ. of New South Wales, Australia	Summer, 1974 & 1994
Australian National University	Summer, 1974
Wayne State University, Detroit	May-June, 1975
Hokkaido University, Japan	July-Sept, 1975
Peking University, Fudan University, PR China	August, 1979 & 1982
Institute for Theoretical Physics, Univ. of Calif., Santa Barbara	December, 1982
External Examiner in Chemistry, Chinese University of Hong Kong	1986-1989
Science Advisory Committee, Hong Kong University of Science and Technology	1995-1997
Chinese American Chemical Society, Board of Directors	1995-1997

#### Editorial Boards:

Associate Editor, Materials Letters	1986-1989
Editorial Board, Journal of Colloid and Interface Science	1986-1989
Editorial Advisory Board, Macromolecules	1990-1992
Editorial Board, Review of Scientific Instruments	1993-1995
Editorial Advisory Board, Journal of Polymer Science Part B (Polymer Physics)	1990-

#### Fellowships, Special

#### Invitations and Honors:

Participant of the 1966 Study Week on Molecular Forces, Pontifical Academy of Science, Vatican City, Rome, Italy.

Alfred P. Sloan Research Fellow  
John Simon Guggenheim Fellow

1966-1968  
1968-1969

**Invitations and Honors (continued):**

<i>Visiting Professor, Japan Society for the Promotion of Science (JSPS)</i>	1975-1976, 1992-1993
<i>Humboldt Award for Senior U.S. Scientists</i>	1976-1977, 1992-1993
Distinguished Achievement Award in Natural Science, St. Norbert College	1981
Fellow, American Institute of Chemists	
Fellow, American Physical Society	
<i>Honorary Professor of the Chinese Academy of Sciences</i>	1992-
<i>High Polymer Physics Prize, American Physical Society</i>	1993
Langmuir Distinguished Lecturer Award, Division of Colloid and Surface Chemistry, American Chemical Society	1994
<i>Honorary Professor, Nankai University</i>	1996-
<i>Award for Distinguished Service in Advancement of Polymer Science, Society of Polymer Science, Japan</i>	1997
<i>Honorary Professor, Xiamen University</i>	1998-
1998 Achievement Award of Chinese Institute of Engineers/USA, Outstanding Achievement Award	1998

**Lectures:**

Robert R. Gilpin Memorial Lecture, Clarkson University,	1996
Collaboratus VI, Distinguished Lectures in Chemical and Biochemical Engineering, Rutgers University,	1996

**Research Interests:**

Techniques:

<i>Rayleigh, Brillouin and Raman scattering;</i>	
<i>Time-resolved small angle x-ray scattering and wide angle x-ray diffraction;</i>	
<i>Small angle neutron scattering;</i>	
<i>Transient electric birefringence;</i>	<i>Laser-induced fluorescence detection</i>
<i>Rheometry;</i>	<i>Electrospinning.</i>

Topics:

<i>Static and dynamical properties of macromolecular, colloidal, and supramolecular solutions,</i>	
<i>Nanocomposites;</i>	<i>Biom mineralization;</i>
<i>Polyelectrolyte-surfactant complexes;</i>	<i>Modification of nanostructured materials;</i>
<i>Supercritical fluids;</i>	<i>Modified fullerenes;</i>
<i>Capillary electrophoresis of DNA;</i>	
<i>Tissue engineering.</i>	<i>Biodegradable polymers for medical applications;</i>

**Publications:**

490 scientific papers, 5 book reviews, 6 books, 8 patents, 1 meeting report, 7 article reviews, and 17 papers in progress.

**Consultantships:**

1. Calgon Corporation, Subsidiary of Merck & Co., Inc., Pittsburgh, PA.
2. Brookhaven Instruments, Holtsville, New York.
3. Universities Space Research Association (USRA), Microgravity Science & Applications Division, NASA.
4. Eastman Kodak Company, Eastman Chemicals Division, Kingsport, Tennessee.
5. Roche Diagnostic Systems, Division of Hoffmann-LaRoche, Inc., Nutley, New Jersey.
6. Bristol-Myers Squibb Company, The Squibb Institute for Medical Research, New Brunswick, New Jersey.
7. DuPont Experimental Station, Wilmington, Delaware
8. W. L. Gore & Associates, Inc., Elkton, Delaware.
9. Dow Chemical Company, Freeport, Texas.

**Biographies:**

Brief biographies have been listed; for examples, in American Men and Women of Science, *Who's Who in America*, Men of Achievement and *American Catholic Who's Who*.